PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
o a collection of information unless it contains a valid CMB control number.

Complete if Known		
Application Number	10/750,073	
Filing Date	12/31/2003	
First Named Inventor	Shen-Kan Hsiung	
Art Unit	2814	
Examiner Name	Shrinivas H. Rao	
Attorney Docket Number	003-03-033	
	Application Number Filling Date First Named Inventor Art Unit Examiner Name	Complete if Known  Application Number 10/750,073  Filling Date 12/31/2003  First Named Inventor Shen-Kan Hsiung  Art Unit 2814  Examiner Name Shrinivas H. Rao

U. S. PATENT DOCUMENTS Name of Patentee or Pages, Columns, Lines, Where Publication Date MM-DD-YYYY Document Number Examiner Cite Relevant Passages or Relevant Figures Appear **Applicant of Cited Document** Na. Initials' Number-Kind Code<sup>2 (U known)</sup> ับร-US-US-US US-US-US-US-นร-HSusus-UŠ-บร-US-บร. US-US-US-

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	70		
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	<u> </u>		
						┢		
	-							
	1							
						L		
				<u> </u>		<u></u>		

F		Date	
Examiner			
Signature		Considered	
O'BLICK! O	1	l	

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 60B. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.goy">www.uspto.goy</a> or MPEP 901.04. Enter Office that issued the document, by the two-tetter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/	2006, OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTM	ENT OF COMMERCE
 the state of the s	

		iction Ac	COC 1995, No persons ar	e required to respond to a consciou	of information unless it contains a valid OMB control number.  Complete if Known
Substitute for form 1449/PTO				Application Number	10/750,073
INFORMATION DISCLOSURE				Filing Date	12/31/2003
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Shen-Kan Hsiung
				Art Unit	2814
(Use as many sheets as necessary)			9C9 <i>55#/y)</i>	Examiner Name	Shrinivas H. Rao
Sheet	2	of	3	Attorney Docket Number	003-03-033

		NON PATENT LITERATURE DOCUMENTS	<del></del>
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	P. BERGVELD, "Development of an ion-sensitive solid-state device for neurophysiological measurements", IEEE Transaction Biomedical Engineering, BME-17, pp. 70-71, 1970.	
	2	D. YU, G.H. WANG, & S.X. WU, "Chemical Sensors, J. Sensor & Transducer Tech., No. 1, pp. 57-62, 1990.	
	3	D. YU, G.H. WANG, & S.X. WU, "Chemical Sensors, J. Sensor & Transducer Tech., No. 6, pp. 52-60, 1991.	
	4	D. YU, G.H. WANG, & S.X. WU, *Chemical Sensors, J. Sensor & Transducer Tech., No. 1, pp. 49-56, 1992.	
	5	D. YU, G.H. WANG, & S.X. WU, *Chemical Sensors, J. Sensor & Transducer Tech., No. 2, pp. 51-55, 1992.	
	6	D. YU, G.H. WANG, & S.X. WU, "Chemical Sensors, J. Sensor & Transducer Tech., No. 3, pp. 53-57, 1991.	
	7	GUI-HUA WANG, DUN YU & YAO-LIN WANG, "ISFET Temperature Characteristics", Sensors and Actuators, 11, pp. 221-237, 1987.	
-	8	A. SAITO, S. MIYAMOTO, J. KIMURA, T. KURIYAMA, "ISFET Glucose Sensor for Undiluted Serum Sample Measurement", Sensors & Actuators B, 5, pp. 237-238, 1992	
	9	R.E.G. VAN HAL, "Characterization and Testing of Polymer-Oxide Adhesion to Improve the Packaging Reliability of ISFETs", Sensors and Actuators V, 23, pp. 17-26, 1995.	
	10	B.H. VAN DER SCHOOT, H.H. VAN DEN VLEKKERT, N.F. DE ROOIJ, A VAN DEN BERG and A. GRISEL, "A Flow Injection Analysis System with Glass-Bonded ISFETs For Simultaneous Detection of Calcium and Potassium Ion and pH", Sensors and Actuators B, 4, pp. 239-241, 1991.	

		·		
F			TR	
- 1	Examiner I		Date	
- 1	Signature		Considered	i

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy or this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

			<u>,</u>	required to rescond to a collection of information unless it contains a valid OMB control number.  Complete if Known			
Substitute for form 1449/PTO				Application Number	10/750,073		
INFO	ORMATIC	N DIS	CLOSURE	Filing Date	12/31/2003		
STA	STATEMENT BY APPLICANT			First Named Inventor	Shen-Kan Hsiung		
	<b>4</b>		i	Art Unit	2814		
	(Use as many	aneets as n	ecessary)	Examiner Name	Shrinivas H. Rao		
Sheet	3	of	3	Attorney Docket Number	003-03-033		

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Initials*	No.	the item (book, magazine, journal, serial, symposlum, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	11	M. GRATTAROLA, "Modeling H+-Sensitive FETs with Spice", IEEE Transactions on Electron Devices, Vol. 39, NO. 4, pp. 813-819, April 1992.	
	12	J.VAN DER SPIEGEL, I. LAUKS, P. CHAN, and D. BABIC, "The Extended Gate Chemical Sensitive Field Effect Transistor as Multi-Species Microprobe", Sensors and Actuators, 4, pp.291-298, 1983.	
	13	L.L. CHI, J.C. CHOU, W.Y. CHUNG, T.P. SUN and S.K. HSIUNG, "Study on Extended Gate Field Effect Translator with Tin Oxide Sensing Membrane," Material Chemistry and Physics, 63 (2000) 19-23.	
	14	L.L. CHI, L.T. YIN, J.C. CHOU, W.Y. CHUNG, T.P. SUN, K.P. HSIUNG and S.K. HSIUNG, "Study on Separative Structure of EnFET to Detect Acetylcholine", Sensors and Actuators B, 71, pp.68-72, 2000.	
	15	H.K. LIAO, J.C. CHOU, W.Y. CHUNG, T.P. SUN and S.K. HSIUNG, "Study on the Interface Trap Density of the SiN4/SiO2 Gate ISFET", Proceedings of the 3rd East Asian Conference on Chemical Sensors, Seoul, Korea, November 5-6, pp. 340-400, 1997.	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (options!). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submittion the completed application form to the USPTO. Time vilit vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.